This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A diagnostic agent comprising an aminocarboxylate ligand complexed with a paramagnetic metal ion wherein a nitrogen atom within said aminocarboxylate is substituted with a group comprising an aromatic amide containing at least one substitution on the aromatic ring, the substitution comprising a group of 3 or more non-hydrogen atoms.

Claim 2 (currently amended): The diagnostic agent of claim 1 wherein said substituted aromatic amide group is of the formula

I

$$-(CH2)m-C-N-A1$$

wherein

 A_1 is - $(CH_2)_m$ ' - or a single bond;

(CH₂)_m and (CH₂)_m' may independently be substituted with alkyl or hydroxyalkyl; R₁ and R₂ are independently hydrogen,

where R_9 is C_4 - C_{18} a straight or branched chain alkyl or hydroxyalkyl, with the proviso that at least one of R_1 and R_2 must be other than hydrogen;

R₃ and R₄ are independently hydrogen, alkyl, arylalkyl, aryl, alkoxy and hydroxyalkyl;
R₁₂ is hydrogen, alkyl or hydroxyalkyl;

R₁₃ is hydrogen, alkyl or arylalkyl, aryl, alkoxy or hydroxyalkyl;

m and m' are independently 0 to 5;

and multimeric forms thereof.

Claim 3 (previously presented): A diagnostic agent of claim 2 wherein said ligand is of the formula

Ia

Ib

$$\begin{array}{c} O & R_{13} \\ & \parallel & \\ N_1-H_2C & (CH_2)_m-C-N-A_1 & \\ \hline V-R_5+C & CHR_5-V & \\ \end{array}$$

Ic

$$(X_1-H_2C)_2N-(CH_2)_m-C-N-A_1$$

Id

wherein m, R_{13} , A_1 , R_1 , R_2 , and R_{12} are as defined in claim 2 and wherein

 X_1 is -COOY₁, PO_3HY_1 or -CONHOY₁;

Y₁ is a hydrogen atom, a metal ion equivalent and/or a physiologically biocompatible cation of an inorganic or organic base or amino acid;

 A_2 is -CHR₆-CHR₇-, -CH₂CH₂(ZCH₂-CH₂)_n-,

$$N(CH_2X_1)_2$$
 $CH_2-CH_2-N(CH_2X_1)_2$ -CH₂-CH-CH₂ or -CH₂-CH₂-CH₂- , wherein X_1 is as defined above;

each R₅ is hydrogen or methyl;

 R_6 and R_7 together represent a trimethylene group or a tetramethylene group or individually are hydrogen atoms, lower alkyl groups (e.g., 1-8 carbons), phenyl groups, benzyl groups or R_6 is a hydrogen atom and R_7 is a -(CH₂)_p-C₆-H₄-W-protein where p is 0 or 1, W is -NH-, -NHCOCH₂- or -NHCS-, protein represents a protein residue;

n is 1, 2 or 3;

Z is an oxygen atom or a sulfur atom or the group NCH_2X_1 or $NCH_2CH_2OR_8$ wherein X_1 is as defined above and R_8 is C_{1-8} alkyl;

V is X_1 or is -CH₂OH, -CONH(CH₂)_r X_1 or -COB, wherein X_1 is as defined above, B is a protein or lipid residue, r is an integer from 1 to 12, or if R_5 , R_6 and R_7 are each hydrogen; then both V's together form the group

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where X_1 is as above, w is 1, 2 or 3, provided that at least two of the substituents Y_1 represent metal ion equivalents of an element with an atomic number of 21 to 29, 42, 44 or 57 to 83; from 1 to 4, advantageously 2 or 3, and preferably 2 M's are -OH and the balance independently are -OR₁₀, -NH₂, -NHR₁₀ and/or NR₁₀R₁₀' wherein R₁₀ and R₁₀' are selected from an organic alkyl radical of up to 18 carbon atoms which may be substituted.

Claim 4 (original): The diagnostic agent of claim 1 wherein said paramagnetic metal ion is gadolinium.

Claim 5 (canceled)

Claim 6 (currently amended): A compound of the formula

wherein

 A_1 is -(CH₂)_m' -or a single bond;

(CH₂)_m and (CH₂)_m' may independently be substituted with alkyl or hydroxyalkyl;

R₁ and R₂ are each independently hydrogen,

alkyl, -NO₂, -NH₂, -NHCNHR₁₂, -C-NR₃R₄ and NR₃COR₉ where R₉ is C₄ -C₁₈ straight or branched chain alkyl or hydroxyyalkyl, with the proviso that at least one of R₁ and R₂ must be other than hydrogen;

 R_3 and R_4 are independently hydrogen, alkyl, arylalkyl, aryl, alkoxy and hydroxyalkyl;

R₁₂ is hydrogen, alkyl or hydroxyalkyl;

R₁₃ is hydrogen, alkyl, arylalkyl, aryl, alkoxy or hydroxyalkyl;

m and m' are independently 0 to 5;

and multimeric forms thereof.

Claims 7 - 10 (canceled)

Claim 11 (currently amended): A compound of the formula

having the name 10-[2-[[3,5-bis[(2,3-dihydroxypropyl)amino]-carbonyl]phenyl]amino]2-oxoethyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid,

wherein

 A_1 is -(CH₂)_m' - or a single bond;

(CH₂)_m and (CH₂)_m' may independently be substituted with alkyl or hydroxyalkyl;

R₁ and R₂ are each independently hydrogen,

S O

alkyl, -NO₂, -NH₂, -NH $\overset{\circ}{\text{C}}$ NHR₁₂, - $\overset{\circ}{\text{C}}$ -NR₃R₄ and NR₃COR₉ where R₉ is C₄ -C₁₈ straight or branched chain alkyl or hydroxyyalkyl, with the proviso that at least one of R₁ and R₂ must be other than hydrogen;

R₃ and R₄ are independently hydrogen, alkyl, arylalkyl, aryl, alkoxy and hydroxyalkyl;

 R_{12} is hydrogen, alkyl or hydroxyalkyl;

R₁₃ is hydrogen, alkyl, arylalkyl, aryl, alkoxy or hydroxyalkyl;

m and m' are independently 0 to 5;

and multimeric forms thereof.

Claim 12 (original): The gadolinium complex of the compound of claim 11.

Claims 13 - 38 (canceled)

Claim 39 (currently amended): A complex or a pharmaceutically acceptable salt of a complex, of a metal atom and a metal chelating ligand having the formula

wherein

 A_1 is -(CH₂)_m'-or-a single bond;

(CH₂)_m and (CH₂)_m' may independently be substituted with alkyl or hydroxyalkyl;

R₁ and R₂ are each independently hydrogen,

alkyl, $-NO_2$, $-NH_2$, $-NHCNHR_{12}$, $-C-NR_3R_4$ and NR_3COR_9 where R_9 is C_4 $-C_{18}$ straight or branched chain alkyl or hydroxyyalkyl, with the proviso that at least one of R_1 and R_2 must be other than hydrogen;

 R_3 and R_4 are independently hydrogen, alkyl, arylalkyl, aryl, alkoxy and hydroxyalkyl; R_{12} is hydrogen, alkyl or hydroxyalkyl;

R₁₃ is hydrogen, alkyl, arylalkyl, aryl, alkoxy or hydroxyalkyl;

m and m' are independently 0 to 5;

Claims 40 -50 (cancelled)

Claim 51 (new): The compound of claim 11 having the name 10-[2-[[3,5-bis[(2,3-dihydroxypropyl)amino]-carbonyl]phenyl]amino]-2-oxoethyl]-1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid.

Claim 52 (new): The gadolinium complex of the compound of claim 51.